

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/001811

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 27/26

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04B, H04L, H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1241779 A2 (NOKIA CORPORATION), 18 Sept 2002 (18.09.2002), paragraphs 0016 - 0023; claims --	1-10
A	US 6563859 B1 (OISHI, Y. ET AL), 13 May 2003 (13.05.2003), column 2, line 44 - column 3, line 16 --	1-10
A	WEBER, K.B. et al. "A multi-carrier base station receiver using a delta-sigma oversampling A/D converter". In: IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, 2002. ICC 2002. 28 April - 02 May 2002, Vol. 2, pages 877-881, Inspec AN: 7387204, see abstract --	1-10

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

21 June 2004

Date of mailing of the international search report

30-06-2004

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6438173 B1 (STANTCHEV, B.), 20 August 2002 (20.08.2002), column 3, line 7 - column 4, line 65, claims  -----	1-10

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

30/04/2004

International application No.

PCT/SE 2003/001811

EP	1241779	A2	18/09/2002	CN	1373563 A	09/10/2002
				JP	2002280988 A	27/09/2002
				US	2002127982 A	12/09/2002
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US	6563859	B1	13/05/2003	GB	2350986 A	13/12/2000
				GB	9928537 D	00/00/0000
				JP	2000252866 A	14/09/2000
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US	6438173	B1	20/08/2002	CN	1266578 T	13/09/2000
				DE	19733825 A	11/02/1999
				EP	1002405 A	24/05/2000
				JP	2001513599 T	04/09/2001
				WO	9908427 A	18/02/1999
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